

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits    | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|---------|--|---|------------------|---------|---------------------|
| L6    | 174     | "flameless oxidation"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/01/26<br>21:55 |
| L7    | 77      | "flameless oxidation"<br>not catalyst                        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/01/26<br>21:57 |
| L8    | 865     | fuel and oxidation and<br>nox                                | EPO; JPO;<br>DERWENT  | OR               | ON      | 2010/01/26<br>23:13 |
| L9    | 807     | fuel and oxidation and<br>nox not flame                      | EPO; JPO;<br>DERWENT  | OR               | ON      | 2010/01/26<br>23:14 |
| L10   | 273     | fuel and oxidation and<br>nox                                | EPO; JPO  | OR               | ON      | 2010/01/26<br>23:14 |
| L11   | 93      | fuel and oxidation and<br>nox not engine                     | EPO; JPO  | OR               | ON      | 2010/01/26<br>23:14 |
| L12   | 44      | fuel and oxidation and<br>nox not engine not<br>catalyst     | EPO; JPO  | OR               | ON      | 2010/01/26<br>23:15 |
| L13   | 4       | "oxidation combustion"<br>and nox not engine not<br>catalyst | EPO; JPO  | OR               | ON      | 2010/01/26<br>23:22 |
| L14   | 132     | "oxidation combustion"                                       | EPO; JPO  | OR               | ON      | 2010/01/26<br>23:23 |
| S1    | 14      | "6068468"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/09/30<br>22:12 |
| S2    | 9321928 | "without"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/12/08<br>18:41 |

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| S3  | 64117 | "without" same flame  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/08<br>18:41 |
| S4  | 7890  | ("without" same flame)<br>and preheat\$   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/08<br>18:42 |
| S5  | 2461  | ("without" same flame)<br>and preheat\$   | USPAT   | OR | ON | 2009/12/08<br>18:43 |
| S6  | 175   | ("without" same flame)<br>and preheat\$   | EPO; JPO;<br>DERWENT  | OR | ON | 2009/12/08<br>18:43 |
| S7  | 152   | ("without" same flame)<br>and preheat\$ not<br>(catalytic catalyst)   | EPO; JPO;<br>DERWENT  | OR | ON | 2009/12/08<br>18:44 |
| S8  | 152   | ("without" same flame)<br>and preheat\$ not<br>(catalytic catalyst)   | EPO; JPO;<br>DERWENT  | OR | ON | 2009/12/08<br>18:45 |
| S9  | 26    | ("without" adj4 flame)<br>and preheat\$ not<br>(catalytic catalyst)   | EPO; JPO;<br>DERWENT  | OR | ON | 2009/12/08<br>18:53 |
| S10 | 1935  | ("without" adj4 flame)<br>not (catalytic catalyst)  | EPO; JPO;<br>DERWENT  | OR | ON | 2009/12/08<br>18:59 |
| S11 | 1935  | ("without" adj4 flame)<br>not (catalytic catalyst)  | EPO; JPO;<br>DERWENT  | OR | ON | 2009/12/08<br>18:59 |
| S12 | 194   | ("without" adj4 flame)<br>not (catalytic catalyst)<br>and (burner).ti.  | EPO; JPO;<br>DERWENT  | OR | ON | 2009/12/08<br>19:01 |
| S13 | 244   | ("without" adj4 flame)<br>not (catalytic catalyst)<br>and (burner).ti.  | USPAT   | OR | ON | 2009/12/08<br>19:23 |
| S14 | 14    | ("3386475"  <br>"4373903").PN. OR<br>("4586894").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/12/08<br>19:31 |
| S15 | 12    | ("3285240"  <br>"4060379"   "4255122"<br>  "4298333"  <br>"4306858").PN. OR<br>("4373903").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/12/08<br>19:32 |
| S16 | 18    | ("3163202"  <br>"3285240"   "4126178"<br>  "4306858"  <br>"4321964"   "4364726"<br>  "4373903"  <br>"4392818"  <br>"4586894").PN. OR<br>("4877396").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/12/08<br>19:34 |

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| S17 | 15 | ("3163202"  <br>"3212558"  <br>"4306858").PN. OR<br>("4392818").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/12/08<br>19:36 |
| S18 | 50 | ("2850875"  <br>"3048014"   "3853273"<br>  "3886728"  <br>"3905192"   "4021188"<br>  "4073134"  <br>"4222232"   "4356698"<br>  "4408461").PN. OR<br>("4589260").URPN.               | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/12/08<br>19:52 |
| S19 | 15 | ("4690635"  <br>"4986748"   "5092760"<br>  "5269679").PN. OR<br>("5458483").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/12/08<br>20:02 |
| S20 | 96 | wunning.in.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/12/08<br>20:25 |
| S21 | 3  | ("20020083829"  <br>"5595833"  <br>"6641625").PN. OR<br>("7608120").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/12/08<br>20:38 |
| S22 | 3  | ("5655435"  <br>"6000389"  <br>"6141143").PN.   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/12/08<br>20:40 |
| S23 | 14 | US-6068468-\$.DID. OR<br>US-4475885-\$.DID. OR<br>US-5344307-\$.DID. OR<br>US-20030082553-\$.<br>DID. OR US-6126438-\$.<br>DID. OR US-5980243-\$.<br>DID. OR US-5554022-\$.<br>DID. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/12/08<br>20:43 |
| S24 | 2  | daneri.in.  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/12/08<br>21:09 |
| S25 | 0  | price.in. and "flare<br>stack"  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/12/09<br>12:43 |
| S26 | 14 | price.xp. and "flare<br>stack"  | USPAT   | OR | ON  | 2009/12/09<br>12:44 |
| S27 | 4  | ("1896286").PN.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/12/09<br>13:19 |

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| S28 | 190 | retallick.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/09<br>13:30 |
| S29 | 8   | retallick.in. and 431/7.<br>ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/09<br>13:30 |
| S30 | 16  | ("4576800"  <br>"4673553"   "4687491"<br>  "4711009"  <br>"4765047"   "4930454"<br>  "5202303"  <br>"5248251"   "5250489"<br>  "5258349"  <br>"5328359"   "5346389"<br>  "5406704"  <br>"5437099"   "5512250"<br>  "6197365").PN.  | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/12/09<br>13:32 |
| S31 | 99  | US-5509403-\$.DID. OR<br>US-5810246-\$.DID. OR<br>US-5591025-\$.DID. OR<br>US-5612266-\$.DID. OR<br>US-4389981-\$.DID. OR<br>US-4599067-\$.DID. OR<br>US-4801437-\$.DID. OR<br>US-4850857-\$.DID. OR<br>US-5443861-\$.DID. OR<br>US-5562440-\$.DID. OR<br>US-5570659-\$.DID. OR<br>US-5983643-\$.DID. OR<br>US-6015286-\$.DID. OR<br>US-6077068-\$.DID. OR<br>US-4256721-\$.DID. OR<br>US-4269590-\$.DID. OR<br>US-4287857-\$.DID. OR<br>US-4326382-\$.DID. OR<br>US-4435148-\$.DID. OR<br>US-4466363-\$.DID. OR<br>US-4499945-\$.DID. OR<br>US-4533318-\$.DID. OR<br>US-4547148-\$.DID. OR<br>US-4583942-\$.DID. OR<br>US-4599955-\$.DID. OR<br>US-4605369-\$.DID. OR<br>US-4606720-\$.DID. OR<br>US-4763583-\$.DID. OR<br>US-4854855-\$.DID. OR<br>US-4886447-\$.DID. OR<br>US-4894006-\$.DID. OR<br>US-4911143-\$.DID. OR | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/24<br>17:03 |

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|-----|----|--|---|----|----|---------------------|
|     |    | US-4952145-\$.DID. OR<br>US-4976253-\$.DID. OR<br>US-4989348-\$.DID. OR<br>US-5014679-\$.DID. OR<br>US-5209217-\$.DID. OR<br>US-5213091-\$.DID. OR<br>US-5216968-\$.DID. OR<br>US-5224855-\$.DID. OR<br>US-5245952-\$.DID. OR<br>US-5263852-\$.DID. OR<br>US-5411394-\$.DID. OR<br>US-5435130-\$.DID. OR<br>US-5458483-\$.DID. OR<br>US-5495813-\$.DID. OR<br>US-5553603-\$.DID. OR<br>US-5553391-\$.DID. OR<br>US-5664942-\$.DID. OR<br>US-5693293-\$.DID.  |   |    |    |                     |
| S32 | 99 | US-5509403-\$.DID. OR<br>US-5810246-\$.DID. OR<br>US-5591025-\$.DID. OR<br>US-5612266-\$.DID. OR<br>US-4389981-\$.DID. OR<br>US-4599067-\$.DID. OR<br>US-4801437-\$.DID. OR<br>US-4850857-\$.DID. OR<br>US-5443861-\$.DID. OR<br>US-5562440-\$.DID. OR<br>US-5570659-\$.DID. OR<br>US-5983643-\$.DID. OR<br>US-6015286-\$.DID. OR<br>US-6077068-\$.DID. OR<br>US-4256721-\$.DID. OR<br>US-4269590-\$.DID. OR<br>US-4287857-\$.DID. OR<br>US-4326382-\$.DID. OR<br>US-4435148-\$.DID. OR<br>US-4466363-\$.DID. OR<br>US-4499945-\$.DID. OR<br>US-4533318-\$.DID. OR<br>US-4547148-\$.DID. OR<br>US-4583942-\$.DID. OR<br>US-4599955-\$.DID. OR<br>US-4605369-\$.DID. OR<br>US-4606720-\$.DID. OR<br>US-4763583-\$.DID. OR<br>US-4854855-\$.DID. OR<br>US-4886447-\$.DID. OR<br>US-4894006-\$.DID. OR<br>US-4911143-\$.DID. OR<br>US-4952145-\$.DID. OR<br>US-4976253-\$.DID. OR<br>US-4989348-\$.DID. OR<br>US-5014679-\$.DID. OR<br>US-5209217-\$.DID. OR<br>US-5213091-\$.DID. OR | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/24<br>17:03 |

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|     |      | US-5216968-\$.DID. OR<br>US-5224855-\$.DID. OR<br>US-5245952-\$.DID. OR<br>US-5263852-\$.DID. OR<br>US-5411394-\$.DID. OR<br>US-5435130-\$.DID. OR<br>US-5458483-\$.DID. OR<br>US-5495813-\$.DID. OR<br>US-5553603-\$.DID. OR<br>US-5553391-\$.DID. OR<br>US-5664942-\$.DID. OR<br>US-5693293-\$.DID. |   |    |    |                     |
| S33 | 1345 | autoignition and cooling  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>16:14 |
| S34 | 44   | autoignition and cooling and "431"/\$.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>16:15 |
| S35 | 1    | autoignition and "compressed oxygen" and "431"/\$.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>16:55 |
| S36 | 35   | "compressed oxygen" and "431"/\$.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>16:57 |
| S37 | 2    | "compressed oxygen" and "431"/11.ccls.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>16:57 |
| S38 | 0    | "liquified oxygen" and "431"/11.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>16:59 |

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| S39 | 1   | "liquified oxygen" and<br>"431"/\$.ccls.               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>16:59 |
| S40 | 27  | "liquified oxygen" and<br>combustion                   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>16:59 |
| S41 | 0   | (( "liquified oxygen"<br>same exapand) same<br>cool\$) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>17:05 |
| S42 | 3   | (( "liquified oxygen"<br>same expand) same<br>cool)    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>17:05 |
| S43 | 2   | "liquified oxygen" and<br>preheat and fuel             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>17:07 |
| S44 | 180 | "auto-ignition" and<br>"431"/\$.ccls.                  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>17:09 |
| S45 | 0   | ("6824383").URPN.                                      | USPAT   | OR | ON | 2009/12/30<br>18:25 |
| S46 | 0   | ("6824383").URPN.                                      | USPAT   | OR | ON | 2009/12/30<br>18:25 |
| S47 | 17  | feese.in.  | USPAT   | OR | ON | 2009/12/30<br>18:52 |
| S48 | 70  | feese.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>18:52 |

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| S49 | 1645 | "homogeneous combustion"                     | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>18:57 |
| S50 | 370  | "homogeneous combustion"                     | EPO; JPO  | OR | ON | 2009/12/30<br>18:57 |
| S51 | 16   | "homogeneous combustion" not engine          | EPO; JPO  | OR | ON | 2009/12/30<br>18:58 |
| S52 | 228  | "diluted combustion"                         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>19:04 |
| S53 | 18   | "diluted combustion"                         | EPO; JPO  | OR | ON | 2009/12/30<br>19:05 |
| S54 | 16   | "diluted combustion" not engine              | EPO; JPO  | OR | ON | 2009/12/30<br>19:05 |
| S55 | 115  | "diluted combustion" not engine not catalyst | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>19:07 |
| S56 | 101  | "diffuse flame"                              | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/30<br>19:18 |
| S57 | 38   | "mild combustion"                            | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/31<br>17:18 |
| S58 | 15   | freieck                                      | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/31<br>18:07 |



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|-----|----|---|---|----|----|---------------------|
| S59 | 99 | US-5509403-\$.DID. OR<br>US-5810246-\$.DID. OR<br>US-5591025-\$.DID. OR<br>US-5612266-\$.DID. OR<br>US-4389981-\$.DID. OR<br>US-4599067-\$.DID. OR<br>US-4801437-\$.DID. OR<br>US-4850857-\$.DID. OR<br>US-5443861-\$.DID. OR<br>US-5562440-\$.DID. OR<br>US-5570659-\$.DID. OR<br>US-5983643-\$.DID. OR<br>US-6015286-\$.DID. OR<br>US-6077068-\$.DID. OR<br>US-4256721-\$.DID. OR<br>US-4269590-\$.DID. OR<br>US-4287857-\$.DID. OR<br>US-4326382-\$.DID. OR<br>US-4435148-\$.DID. OR<br>US-4466363-\$.DID. OR<br>US-4499945-\$.DID. OR<br>US-4533318-\$.DID. OR<br>US-4547148-\$.DID. OR<br>US-4583942-\$.DID. OR<br>US-4599955-\$.DID. OR<br>US-4605369-\$.DID. OR<br>US-4606720-\$.DID. OR<br>US-4763583-\$.DID. OR<br>US-4854855-\$.DID. OR<br>US-4886447-\$.DID. OR<br>US-4894006-\$.DID. OR<br>US-4911143-\$.DID. OR<br>US-4952145-\$.DID. OR<br>US-4976253-\$.DID. OR<br>US-4989348-\$.DID. OR<br>US-5014679-\$.DID. OR<br>US-5209217-\$.DID. OR<br>US-5213091-\$.DID. OR<br>US-5216968-\$.DID. OR<br>US-5224855-\$.DID. OR<br>US-5245952-\$.DID. OR<br>US-5263852-\$.DID. OR<br>US-5411394-\$.DID. OR<br>US-5435130-\$.DID. OR<br>US-5458483-\$.DID. OR<br>US-5495813-\$.DID. OR<br>US-5553603-\$.DID. OR<br>US-5553391-\$.DID. OR<br>US-5664942-\$.DID. OR<br>US-5693293-\$.DID. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/12/31<br>18:14 |
|-----|----|---|---|----|----|---------------------|

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|-----|-----|-------------------------------------|---|----|-----|---------------------|
| S64 | 0   | ("3174277"  <br>"4740158").PN.).PN. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/01/26<br>14:41 |
| S65 | 6   | ("3174277"  <br>"4740158").PN.      | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/01/26<br>14:41 |
| S66 | 148 | laser and 60/282-324.<br>ccls.      | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2010/01/26<br>15:16 |

**1/ 26/ 10 11:38:54 PM****H:\ Documents and Settings\ cprice\ My Documents\ Critical Data\ EAST\ 10580138.wsp**